SEQUENCE LISTING

- (1) GENERAL INFORMATION:
 - (i) APPLICANT: HAWLEY-NELSON, PAMELA LAN, JIANQING SHIH, POJEN JESSE, JOEL A. SCHIFFERLI, KEVIN P. GEBEYEHU, GULILAT
 - (ii) TITLE OF INVENTION: PEPTIDE-ENHANCED TRANSFECTIONS
 - (iii) NUMBER OF SEQUENCES: 120
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: GREENLEE, WINNER & SULLIVAN
 - (B) STREET: 5370 MANHATTAN CIRCLE, SUITE 201
 - (C) CITY: BOULDER
 - (D) STATE: CO
 - (E) COUNTRY: US
 - (F) ZIP: 80303
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: Not assigned
 - (B) FILING DATE: 23-JUL-2001
 - (C) CLASSIFICATION:
 - (vii) PRIOR APPLICATION DATA
 - (A) APPLICATION NUMBER: US 09/039,780
 - (B) FILING DATE: 16-MAR-1998
 - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: SULLIVAN, SALLY A.
 - (B) REGISTRATION NUMBER: 32,064
 - (C) REFERENCE/DOCKET NUMBER: 32-95D
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (303)499-8080
 - (B) TELEFAX: (303)499-8089

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

His Ala Ile Arg Gly Asp Thr Phe Ala Thr 1 5 10

- (2) INFORMATION FOR SEQ ID NO:2:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Pro Lys Lys Arg Lys Val 1 5

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Pro Lys Lys Lys Arg Lys Val 1 5

- (2) INFORMATION FOR SEQ ID NO:4:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 2..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "ANY OR ALL OF THE AMINO ACIDS 2-20 CAN BE PRESENT OR ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Lys Lys Lys Lys 20

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 2..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "ANY OR ALL OF THE AMINO ACIDS 2-20 CAN BE PRESENT OR ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Arg Arg Arg Arg 20

- (2) INFORMATION FOR SEQ ID NO:6:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 40 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 3..40
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "ANY Lsy-Arg PAIR FROM AMINO ACID 3-40 CAN BE PRESENT OR ABSENT"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Lys Arg Lys Ar

Lys Arg Lys Ar

Lys Arg Lys Arg Lys Arg Lys Arg 35 40

- (2) INFORMATION FOR SEQ ID NO:7:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 2..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "ANY OR ALL OF THE AMINO ACIDS 2-20 CAN BE PRESENT OR ABSENT"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Gly Gly Gly Gly 20

- (2) INFORMATION FOR SEQ ID NO:8:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide

- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Gly Arg Gly Asp Ser Pro Cys

- (2) INFORMATION FOR SEQ ID NO:9:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "ANY OR ALL OF THE AMINO ACIDS 1-20 CAN BE PRESENT OR ABSENT"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Lys Lys Lys Arg Gly Asp 20

- (2) INFORMATION FOR SEQ ID NO:10:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide

Arg Gly Asp

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

Lys Phe Thr Ile Val Phe Cys 5

(2) INFORMATION FOR SEQ ID NO:12:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 12 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQ	UENCE	DESCRIPTION:	SEO	ID	NO:	12:
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Cys Gly Trp Gly Pro Lys Lys Lys Arg Lys Val Gly
1 5 10

(2) INFORMATION FOR SEQ ID NO:13:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 26 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

Gly Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly Gly Gly Gly Tyr 1 5 10 15

Gly Pro Lys Lys Lys Arg Lys Val Gly Gly 20 25

(2) INFORMATION FOR SEQ ID NO:14:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

Arg Gly Asp Ser Pro Cys 1 5

(2) INFORMATION FOR SEQ ID NO:15:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

Arg Glu Asp Val

(2) INFORMATION FOR SEQ ID NO:16:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

Arg Gly Asp Val

(2) INFORMATION FOR SEQ ID NO:17:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

Asp Glu Leu Pro Gln Leu Val Thr Leu Pro His Pro Asn Leu His Gly 15

10

Pro Glu Ile Leu Asp Val Pro Ser Thr 20 25

- (2) INFORMATION FOR SEQ ID NO:18:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

Arg Gly Asp Asn

- (2) INFORMATION FOR SEQ ID NO:19:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

Arg Gly Asp Met

- (2) INFORMATION FOR SEQ ID NO:20:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

Arg Gly Asp Thr

(2) INFORMATION FOR SEQ ID NO:21:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 4
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITION 4 CAN BE ANY AMINO ACID"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

Arg Gly Asp Xaa

- (2) INFORMATION FOR SEQ ID NO:22:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

Arg Gly Asp Ser

- (2) INFORMATION FOR SEQ ID NO:23:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

Arg Gly Asp Ala

- (2) INFORMATION FOR SEQ ID NO:24:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 33 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "C AT POSITION 1 CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 3
- (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITION 3 CAN BE TYR OR TRP OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 14..33
- (D) OTHER INFORMATION: /product= "OTHER" /note= "ANY OR ALL OF THE GLY AT POSITIONS 14 TO 33 CAN BE ABSENT"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

Cys Gly Xaa Gly Pro Lys Lys Lys Arg Lys Val Gly Gly Gly Gly Gly 1 5 10 15

Gly

- (2) INFORMATION FOR SEQ ID NO:25:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 48 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY AMINO ACIDS AND ANY OR ALL OF THESE AMINO ACIDS CAN BE ABSENT "
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 28
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITION 28 CAN BE TYR OR TRP OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 29..48
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 29-48 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

Xaa Xaa Xaa Xaa Pro Lys Lys Lys Arg Lys Val Xaa Xaa Xaa Xaa Xaa Xaa 20 25 30

- (2) INFORMATION FOR SEQ ID NO:26:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 90 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
 - (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY AMINO ACIDS OR ANY OF THESE AMINO ACIDS CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
 - (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITON 21 CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22
- (D) OTHER INFORMATION: /product= "OTHER"
 /note= "Xaa AT POSITION 22 CAN BE TYR OR TRP OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 23..42
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 23-42 CAN BE ANY AMINO ACIDS OR ANY OF THESE AMINO ACIDS CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50
- (D) OTHER INFORMATION: /product="OTHER" /note="CYS AT POSITION 50 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 51..70
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 51 TO 79 CAN BE ANY AMINO ACIDS OR ANY OF THESE AMINO ACIDS CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 71..90
- (D) OTHER INFORMATION: /product= "OTHER"
 /note= "Xaa AT POSITIONS 71-90 CAN BE ANY CATIONIC AMINO ACIDS
 OR ANY OF THESE AMINO ACIDS CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Lys Lys Arg Lys 35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

90

(2) INFORMATION FOR SEQ ID NO:27:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 70 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 1 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 2..21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 2-21 CAN BE ANY AMINO ACIDS OR ANY OF THESE AMNION ACIDS CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITION 22 CAN BE TYR OR TRP OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 23..42
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 23 TO 42 CAN BE ANY AMNIO ACIDS OR ANY OF THESE AMINO ACIDS CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50..69
- (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 50 TO 69 CAN BE ANY AMINO ACIDS OR ANY OF THESE AMINO ACIDS CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 70
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 70 CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

15

10

20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Lys Lys Arg Lys 40 45

Xaa Xaa Xaa Xaa Cys 70 65

- (2) INFORMATION FOR SEQ ID NO:28:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 90 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 1 CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 2..21
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 2-21 CAN BE ANY AMINO ACIDS OR ANY OF THESE AMINO ACIDS CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITION 22 CAN BE TYR OR TRP OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 23..42
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 23-42 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 50 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 51..70
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 51 TO 70 CAN BE ANY AMINO ACIDS AND CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 71..90
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 71-90 CAN BE ANY CATIONIC AMINO ACIDS OR CAN BE ABSENT"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

10 15

20 25 30 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Lys Lys Arg Lys 35 40 45

- (2) INFORMATION FOR SEQ ID NO:29:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 90 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY CATIONIC AMINO ACIDS OR CAN BE AB..."
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21..40
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 21 TO 40 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 41
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 41 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 42
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITION 42 CAN BE TYR OT TRP OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 43..62
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 43 TO 62 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 70..89
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 70 TO 89 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 90
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 90 CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys 85 90

- (2) INFORMATION FOR SEQ ID NO:30:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 90 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY CATIONIC AMINO ACID OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21..40
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 21 TO 40 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 41
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 41 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 42
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITION 42 CAN BE TYR OR TRP OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 43..62
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 43 TO 62 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 70
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 70 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 71..90
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 71 TO 90 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

- (2) INFORMATION FOR SEQ ID NO:31:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

Arg Gly Asp Ser Pro 1 5

- (2) INFORMATION FOR SEQ ID NO:32:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 69 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY CATIONIC AMINO ACIDS OR CAN BE AB..."
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21..40
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 21-40 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 41
- (D) OTHER INFORMATION: /product="OTHER" /note="CYS AT POSITION 41 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 42
- (D) OTHER INFORMATION: /product= "OTHER" /note= "GLY AT POSITION 42 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 48
- (D) OTHER INFORMATION: /product= "OTHER" /note= "GLY AT POSITION 48 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 49
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 49 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50..69
- (D) OTHER INFORMATION: /product= "OTHER"
 /note= "Xaa AT POSITIONS 50-69 CAN BE ANY AMINO ACIDS OR CAN BE
 ABSENT"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Gly Arg Gly Asp Ser Pro Gly 35 40 45

Xaa Xaa Xaa Xaa Xaa 65

(2) INFORMATION FOR SEQ ID NO:33:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 69 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 21 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22
- (D) OTHER INFORMATION: /product= "OTHER" /note= "GLY AT POSITION 22 CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 28
- (D) OTHER INFORMATION: /product= "OTHER" /note= "GLY AT POSITION 28 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 29
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 29 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 30..49
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 30-49 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50..69
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 50 -69 CAN BE ANY CATIONIC AMINO ACIDS"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

Xaa Xaa Xaa Cys Gly Arg Gly Asp Ser Pro Gly Cys Xaa Xaa Xaa 20 25 30

Xaa Xaa Xaa Xaa Xaa 65

(2) INFORMATION FOR SEQ ID NO:34:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 69 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 1-20 CAN BE ANY CATIONIC AMINO ACIDS OR CAN BE AB..."

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21..40
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 21-40 CAN BE ANY AMINO ACIDS OR CAN BE

/note= "Xaa AT POSITIONS 21-40 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 41
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 41 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 42
- (D) OTHER INFORMATION: /product= "OTHER" /note= "GLY AT POSITION 42 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 48
- (D) OTHER INFORMATION: /product= "OTHER" /note= "GLY AT POSITION 48 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 49..68
 - (D) OTHER INFORMATION: /product= "OTHER"
- /note= "Xaa AT POSITIONS 49-68 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 69
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 69 CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Gly Arg Gly Asp Ser Pro Gly 35 40 45

Xaa Xaa Xaa Cys 65

- (2) INFORMATION FOR SEQ ID NO:35:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 69 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 1 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 2..21
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 2-21 CAN BE ANY AMINO ACID OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22
- (D) OTHER INFORMATION: /product= "OTHER" /note= "GLY AT POSITION 22 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 28
- (D) OTHER INFORMATION: /product= "OTHER" /note= "GLY AT POSITION 28 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 29
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 29 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 30..49
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 30-49 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50..69
- (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 50-69 CAN BE ANY CATIONIC AMINO ACIDS OR CAN BE ABSENT"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:
- Xaa Xaa Xaa Xaa Gly Arg Gly Asp Ser Pro Gly Cys Xaa Xaa Xaa 20 25 30

Xaa Xaa Xaa Xaa Xaa 65

- (2) INFORMATION FOR SEQ ID NO:36:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

Arg Gly Asp Met Phe 1 5

- (2) INFORMATION FOR SEQ ID NO:37:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 49 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
 - (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
 - (D) OTHER INFORMATION: /product="OTHER" /note="CYS AT POSITION 21 CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22
- (D) OTHER INFORMATION: /product= "OTHER" /note= "GLY AT POSITION 22 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 28
- (D) OTHER INFORMATION: /product= "OTHER" /note= "GLY AT POSITION 28 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 29
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 29 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 30..49
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 30-49 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:

Xaa Xaa Xaa Xaa Cys Gly Arg Gly Asp Met Phe Gly Cys Xaa Xaa Xaa 20 25 30

Xaa

- (2) INFORMATION FOR SEQ ID NO:38:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 1 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 2..21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 2-21 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 27..46
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 27-46 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 47
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 47 CAN BE ABSENT"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

Xaa Xaa Xaa Xaa Xaa Arg Gly Asp Met Phe Xaa Xaa Xaa Xaa Xaa Xaa Xaa 20 25 30

- (2) INFORMATION FOR SEQ ID NO:39:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 69 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY CATIONIC AMINO ACIDS OR CAN BE AB..."
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21..40
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 21-40 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 41
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 41 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 42
- (D) OTHER INFORMATION: /product= "OTHER" /note= "GLY AT POSITION 42 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 48
- (D) OTHER INFORMATION: /product= "OTHER" /note= "GLY AT POSITION 48 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 49..68
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 49-68 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 69
- (D) OTHER INFORMATION: /product="OTHER" /note="CYS AT POSITION 69 CAN BE ABSENT"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Gly Arg Gly Asp Met Phe Gly 35 40 45

Xaa Xaa Xaa Cys 65

(2) INFORMATION FOR SEQ ID NO:40:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 69 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 1 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 2..21
- (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 2-21 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22
- (D) OTHER INFORMATION: /product= "OTHER" /note= "GLY AT POSITION 22 CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 28
- (D) OTHER INFORMATION: /product= "OTHER" /note= "GLY AT POSITION 28 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 29
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 29 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 30..49
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 30-49 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50..69
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 50-69 CAN BE ANY CATIONIC AMINO ACIDS OR CAN BE ABSENT"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

Xaa Xaa Xaa Xaa Gly Arg Gly Asp Met Phe Gly Cys Xaa Xaa Xaa 20 25 30

Xaa Xaa Xaa Xaa Xaa 65

(2) INFORMATION FOR SEQ ID NO:41:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 69 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY CATIONIC AMINO ACIDS OR CAN BE AB..."
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21..40
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 21-40 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 41
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 41 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 42
- (D) OTHER INFORMATION: /product= "OTHER" /note= "GLY AT POSITION 42 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 48
- (D) OTHER INFORMATION: /product= "OTHRE" /note= "GLY AT POSITION 48 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 49
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 49 CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50..69
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 50-69 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Gly Arg Gly Asp Met Phe Gly

Xaa Xaa Xaa Xaa Aaa 65

- (2) INFORMATION FOR SEQ ID NO:42:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 69 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 1-20 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 21 CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22
- (D) OTHER INFORMATION: /product= "OTHER" /note= "GLY AT POSITION 22 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 28
- (D) OTHER INFORMATION: /product= "OTHER" /note= "GLY AT POSITION 28 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 29
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 29 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 30..49
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 30-49 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50..69
- (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 50-69 CAN BE ANY CATIONIC AMINO ACIDS OR CAN BE ABSENT"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:

Xaa Xaa Xaa Xaa Cys Gly Arg Gly Asp Met Phe Gly Cys Xaa Xaa Xaa 20 25 30

Xaa Xaa Xaa Xaa

(2) INFORMATION FOR SEQ ID NO:43:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 67 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 1 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 2..21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 2-21 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 47..66
- (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 47-66 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 67
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 67 CAN BE ABSENT"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:

15

10

Xaa Xaa Xaa Xaa Asp Glu Leu Pro Gln Leu Val Thr Leu Pro His 30 25

Pro Asn Leu His Gly Pro Glu Ile Leu Asp Val Pro Ser Thr Xaa Xaa 40 45

Xaa Xaa Cys

65

(2) INFORMATION FOR SEQ ID NO:44:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 87 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 1-20 CAN BE ANY CATIONIC AMINO ACID OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21..40
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 21-40 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 41
- (D) OTHER INFORMATION: /product= "OTHER"

/note= "CYS AT POSITION 41 CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 67..86
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 67-86 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 87
- (D) OTHER INFORMATION: /product= "OTHER"

/note= "CYS AT POSITION 87 CAN BE ABSENT"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Asp Glu Leu Pro Gln Leu Val 35 40 45

Thr Leu Pro His Pro Asn Leu His Gly Pro Glu Ile Leu Asp Val Pro 50 55 60

Xaa Xaa Xaa Xaa Xaa Cys 85

(2) INFORMATION FOR SEQ ID NO:45:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 87 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY CATIONIC AMINO ACIDS OR CAN BE AB..."
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21..40
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 21-40 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 41
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSTION 41 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 67
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 67 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 68..87
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 68-87 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Asp Glu Leu Pro Gln Leu Val 35 40 45

Thr Leu Pro His Pro Asn Leu His Gly Pro Glu Ile Leu Asp Val Pro 50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa 85

- (2) INFORMATION FOR SEQ ID NO:46:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 87 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 1 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 2..21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 2-21 CAN BE ANY AMINO ACID OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 47
- (D) OTHER INFORMATION: /product="OTHER" /note="CYS AT POSITION 47 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 48..67
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 48-67 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 68..87
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 68-87 CAN BE ANY CATIONIC AMINO ACIDS OR CAN BE ABSENT"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:

Xaa Xaa Xaa Xaa Asp Glu Leu Pro Gln Leu Val Thr Leu Pro His 20 25 30

Pro Asn Leu His Gly Pro Glu Ile Leu Asp Val Pro Ser Thr Cys Xaa 35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa 85

(2) INFORMATION FOR SEQ ID NO:47:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 87 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 1-20 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product="OTHER" /note="CYS AT POSITION 21 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 47
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 47 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 48..67
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 48-67 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 68..87
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 68-87 CAN BE ANY CATIONIC AMNIO ACIDS

OR CAN BE ABSENT"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:

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Xaa Xaa Xaa Cys Asp Glu Leu Pro Gln Leu Val Thr Leu Pro His 30 20 25

Pro Asn Leu His Gly Pro Glu Ile Leu Asp Val Pro Ser Thr Cys Xaa 45 40 35

60

75

Xaa Xaa Xaa Xaa Xaa Xaa

- (2) INFORMATION FOR SEQ ID NO:48:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:

Glu Ile Leu Asp Val Pro Ser Thr

(2) INFORMATION FOR SEQ ID NO:49:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 50 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
- (D) OTHER INFORMATION: /product= "OTHER"

/note= "CYS AT POSITION 1 CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 2-21 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 30..49
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 30-49 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 50 CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:

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Xaa Xaa Xaa Xaa Glu Ile Leu Asp Val Pro Ser Thr Xaa Xaa Xaa

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Xaa Cys

(2) INFORMATION FOR SEQ ID NO:50:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 70 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY CATIONIC AMINO ACIDS OR CAN BE AB..."
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21..40
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 21-40 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 41
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 41 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 50 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 51..70
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 51-70 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Glu Ile Leu Asp Val Pro Ser 35 40 45

Xaa Xaa Xaa Xaa Xaa Aaa 65 70

- (2) INFORMATION FOR SEQ ID NO:51:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 70 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
 - (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY CATIONIC AMINO ACIDS OR CAN BE AB..."
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21..40
 - (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 21-40 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 41
 - (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 41 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50..69
 - (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 50-69 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 70
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 70 CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Glu Ile Leu Asp Val Pro Ser 35 40 45

Xaa Xaa Xaa Xaa Cys 65 70

- (2) INFORMATION FOR SEQ ID NO:52:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 70 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
 - (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 1 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 2..21
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 2-21 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 30
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 30 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 31..50
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 31-50 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 51..70
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 51-70 AN BE ANY CATIONIC AMINO ACIDS OR CAN BE AB..."
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:

Xaa Xaa Xaa Xaa Glu Ile Leu Asp Val Pro Ser Thr Cys Xaa Xaa 20 25 30

Xaa Xaa Xaa Xaa Xaa

65

- (2) INFORMATION FOR SEQ ID NO:53:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 70 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 1-20 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 21 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 30
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 50 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 31..50
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 31-50 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

(ix) FEATURE:

20

35

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 51..70
- (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 51-70 CAN BE ANY CATIONIC AMINO ACIDS OR CAN BE ABSENT"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:

25

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Xaa Xaa Xaa Cys Glu Ile Leu Asp Val Pro Ser Thr Cys Xaa Xaa

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Xaa Xaa Xaa Xaa Xaa 65 70

(2) INFORMATION FOR SEQ ID NO:54:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:

Lys Phe Thr Ile Val Phe 5

- (2) INFORMATION FOR SEQ ID NO:55:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 48 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
 - (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 1 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 2..21
 - (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 2-21 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 28..47

(D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 28-47 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 48
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 48 CAN BE ABSENT"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:

10 5

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Xaa Xaa Xaa Xaa Xaa Lys Phe Thr Ile Val Phe Xaa Xaa Xaa Xaa Xaa 25 30

40 45 35

- (2) INFORMATION FOR SEQ ID NO:56:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 68 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY CATIONIC AMINO ACIDS OR CAN BE AB..."
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21..40
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 21-40 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 41
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 41 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 48
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 48 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 49..68
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 49-68 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:

1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Lys Phe Thr Ile Val Phe Cys 35 40 45

Xaa Xaa Xaa Xaa

- (2) INFORMATION FOR SEQ ID NO:57:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 68 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY CATIONIC AMINO ACID OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21..40
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 21-40 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 41
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 41 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 48..67
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 48-67 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 68
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 68 CAN BE ABSENT"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Lys Phe Thr Ile Val Phe Xaa 35 40 45

(2) INFORMATION FOR SEQ ID NO:58:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 68 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 1 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 2..21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 2-21 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 28
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 28 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 29..48
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 29-48 CAN BE ANY AMNINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 49..68
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 49-68 CAN BE ANY CATIONIC AMINO ACIDS OR CAN BE ABSENT"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:

Xaa Xaa Xaa Xaa Xaa Lys Phe Thr Ile Val Phe Cys Xaa Xaa Xaa Xaa 20 25 30

Xaa Xaa Xaa Xaa 65

(2) INFORMATION FOR SEQ ID NO:59:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 68 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 21 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 28
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 28 CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 29..48
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 29-48 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 49..68
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 49-68 CAN BE ANY CATIONIC AMINO ACIDS OR CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:

Xaa Xaa Xaa Xaa Cys Lys Phe Thr Ile Val Phe Cys Xaa Xaa Xaa Xaa 20 25 30

Xaa Xaa Xaa Xaa 65

- (2) INFORMATION FOR SEQ ID NO:60:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 95 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
 - (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 21 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITION 22 CAN BE TYR OR TRP OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 23..42
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 23-42 ANC BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50..69
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 50-69 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 75
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 75 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 76..95
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 76-95 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Lys Lys Arg Lys 35 40 45

Xaa Xaa Xaa Xaa Arg Gly Asp Met Phe Cys Xaa Xaa Xaa Xaa Xaa 65 70 75 80

(2) INFORMATION FOR SEQ ID NO:61:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 95 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 21 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22..41
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 22-41 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 42
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITION 42 CAN BE TYR OR TRP OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50..69
- (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 50-69 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 75
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 75 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 76..95
- (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 76-95 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Aaa Pro Lys Lys Arg Lys 35 40 45

Xaa Xaa Xaa Xaa Arg Gly Asp Met Phe Cys Xaa Xaa Xaa Xaa Xaa 65 70 75 80

- (2) INFORMATION FOR SEQ ID NO:62:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 96 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 21 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22
- (D) OTHER INFORMATION: /product= "OTHER"
 /note= "Xaa AT POSITION 22 CAN BE TYR OR TRP OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 23..42
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 23-42 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50..69
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 50-69 CAN BE ANY AMINO ACIDS OF CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 76
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 76 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 77..96
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 77-96 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Aaa Pro Lys Lys Arg Lys 35 40 45

Xaa Xaa Xaa Xaa Gly Arg Gly Asp Ser Pro Cys Xaa Xaa Xaa Xaa 65 70 75 80

(2) INFORMATION FOR SEQ ID NO:63:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 95 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY AMINO ACID OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 21 CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITION 22 CAN BE TYR OR TRP OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 23..42
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITION 23-42 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50..69
- (D) OTHER INFORMATION: /product= "OTHER"
 /note= "Xaa AT POSITIONS 50-69 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 75
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 75 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 76..95
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 76-95 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Aaa Pro Lys Lys Arg Lys 35 40 45

Xaa Xaa Xaa Xaa Xaa Arg Gly Asp Ser Pro Cys Xaa Xaa Xaa Xaa Xaa 65 70 75 80

- (2) INFORMATION FOR SEQ ID NO:64:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 117 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER"
 /note= "Xaa AT POSITIONS 1-20 CAN BE ANY AMINO ACID OR CAN BE
 ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 21 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 28
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 28 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 29..48
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 29-48 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 49
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 49 CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50..69
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 50-69 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 70
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITION 70 CAN BE TYR OR TRP OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 71..90
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 71-90 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 98..117
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 98-117 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:

Xaa Xaa Xaa Xaa Cys Lys Phe Thr Ile Val Phe Cys Xaa Xaa Xaa Xaa 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Lys Lys Lys Arg Lys 85 90 95

Xaa Xaa Xaa Xaa Xaa 115

(2) INFORMATION FOR SEQ ID NO:65:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 97 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 21 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 28
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 28 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 29..48
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 29-48 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 49
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 49 CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50..69
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 50-69 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 70
- (D) OTHER INFORMATION: /product= "OTHER"
 /note= "Xaa AT POSITION 70 CAN BE TYR OR TRP OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 78..97
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 78-97 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:

Xaa Xaa Xaa Xaa Cys Lys Phe Thr Ile Val Phe Cys Xaa Xaa Xaa Xaa 20 25 30

Xaa Xaa Xaa Xaa Xaa Pro Lys Lys Arg Lys Val Xaa Xaa Xaa 65 70 75 80

Xaa

(2) INFORMATION FOR SEQ ID NO:66:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 99 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 21 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITION 22 CAN BE TYR, TRP OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 23..42
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 23-42 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 51..70
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 51-70 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 79
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 79 CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 80..99
- (D) OTHER INFORMATION: /product= "OTHER"
 /note= "Xaa FROM 80-99 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Pro Lys Lys Arg 35 40 45

Xaa Xaa Xaa Xaa Xaa Glu Ile Leu Asp Val Ser Pro Thr Cys Xaa 65 70 75 80

Xaa Xaa Xaa

- (2) INFORMATION FOR SEQ ID NO:67:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 78 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
 - (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa FROM 1-20 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 21 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITION 22 CAN BE TYR, TRP OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 30..49
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 30-49 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 58
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 58 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 59..78
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 59-78 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:

Xaa Xaa Xaa Xaa Cys Xaa Pro Lys Lys Lys Arg Lys Val Xaa Xaa Xaa 20 25 30

Xaa Glu Ile Leu Asp Val Ser Pro Thr Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa 50 55 60

(2) INFORMATION FOR SEQ ID NO:68:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 77 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY AMINO ACID OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 21 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 28
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 28 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 29..48
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITION 29-48 CAN BE ANY AMINO ACID OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 57
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 57 CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 58..77
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 58-77 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:

Xaa Xaa Xaa Xaa Cys Lys Phe Thr Ile Val Phe Cys Xaa Xaa Xaa Xaa 20 25 30

Glu Ile Leu Asp Val Pro Ser Thr Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Soo 50 55 60

(2) INFORMATION FOR SEQ ID NO:69:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 93 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 1-20 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITION 21 CAN BE TYR, TRP OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22..41
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 22-41 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 49..68
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 49-68 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 74..93
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 74-93 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Lys Lys Arg Lys Val 35 40 45

- (2) INFORMATION FOR SEQ ID NO:70:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 94 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITIONS 1-20 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS AT POSITION 21 CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22..41
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 22-41 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 42
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITION 42 CAN BE ANY AMINO ACID OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50..69
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 50-69 CAN BE ANY AMINO ACID OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 75..94
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa AT POSITIONS 75-94 CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:

10 15

25

166

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Lys Lys Arg Lys 35 40 45

Xaa Xaa Xaa Xaa Xaa Arg Gly Asp Met Phe Xaa Xaa Xaa Xaa Xaa Xaa Arg 65 70 75 80

(2) INFORMATION FOR SEQ ID NO:71:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 94 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE TYR, TRP OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22..41
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 49..68
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 75..94
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Lys Lys Arg Lys Val 35 40 45

Xaa Xaa Xaa Xaa Gly Arg Gly Asp Ser Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa 65 70 75 80

- (2) INFORMATION FOR SEQ ID NO:72:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 94 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
 - (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
 - (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE TYR, TRP OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 23..42
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50..69
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 75..94
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Lys Lys Lys Arg Lys 35 40 45

(2) INFORMATION FOR SEQ ID NO:73:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 116 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "other" /note= "Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 27
- (D) OTHER INFORMATION: /product= "OTHER"

/note= "CYS CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 28..47
- (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 48
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "CYS CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 49..68
- (D) OTHER INFORMATION: /product="OTHER"

/note= "Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 69
 - (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa AT POSITION 69 CAN BE TYR, TRP, OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 70..89
- (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 97..116
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Lys Lys Arg Lys Val 85 90 95

Xaa Xaa Xaa Xaa

- (2) INFORMATION FOR SEQ ID NO:74:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 97 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 28
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 29..48
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Active-site
 - (B) LOCATION: 49
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50..69
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 70
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE TYR, TRP OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 78..97
- (D) OTHER INFORMATION: /product="OTHER" /note="Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:

Xaa Xaa Xaa Xaa Cys Lys Phe Thr Ile Val Phe Cys Xaa Xaa Xaa Xaa 20 25 30

Xaa Xaa Xaa Xaa Xaa Aaa Pro Lys Lys Arg Lys Val Xaa Xaa Xaa 65 70 75 80

Xaa

(2) INFORMATION FOR SEQ ID NO:75:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 97 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE TYR, TRP OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22..41
- (D) OTHER INFORMATION: /product= "other"

/note= "Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 50..69
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 78..97
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Pro Lys Lys Lys Arg Lys 35 40 45

Xaa Xaa Xaa Xaa Glu Ile Leu Asp Val Ser Pro Thr Xaa Xaa Xaa 65 70 75 80

Xaa

- (2) INFORMATION FOR SEQ ID NO:76:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 77 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER"

/note= "Xaa CAN BE ANY AMINO ACIDS OR CAN BE ABSENT"

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 22
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE TYR, TRP OR CAN BE ABSENT"
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 30..49
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 58..77
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:

Xaa Xaa Xaa Xaa Cys Xaa Pro Lys Lys Lys Arg Lys Val Xaa Xaa Xaa 20 25 30

Xaa Glu Ile Leu Asp Val Ser Pro Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Soo 55 60

(2) INFORMATION FOR SEQ ID NO:77:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 75 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 27
- (D) OTHER INFORMATION: /product= "OTHER" /note= "CYS CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 28..47
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACID AND CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 56..75
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:

Ile Leu Asp Val Pro Ser Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa 55 60 70 75 (2) INFORMATION FOR SEQ ID NO:78: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: not relevant (D) TOPOLOGY: circular (ii) MOLECULE TYPE: peptide (ix) FEATURE: (A) NAME/KEY: Modified-site (B) LOCATION: 1..20 (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY CATIONIC AMINO ACIDS OR CAN BE ABSENT" (ix) FEATURE: (A) NAME/KEY: Modified-site (B) LOCATION: 21..40 (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACIDS OR CAN BE ABSENT" (ix) FEATURE: (A) NAME/KEY: Modified-site (B) LOCATION: 51..70 (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACIDS OR CAN BE ABSENT" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:78: 10 15 20 25 30 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Glu Ile Leu Asp Val Pro Ser 50 55 60

Xaa Xaa Xaa Xaa Xaa 70 65

(2) INFORMATION FOR SEQ ID NO:79:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 71 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: circular
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY CATIONIC AMINO ACID OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 21..40
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 52..71
- (D) OTHER INFORMATION: /product= "OTHER" /note= "Xaa CAN BE ANY AMINO ACID OR CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:

5 10 15

20 25

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys His Ala Ile Arg Gly Asp Thr 40

Xaa Xaa Xaa Xaa Xaa Xaa 70

- (2) INFORMATION FOR SEQ ID NO:80:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 14
- (D) OTHER INFORMATION: /product= "OTHER" /note= "G AT POSITION 14 CAN BE ABSENT"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:

Gly Lys Phe Thr Ile Val Phe Asp Asp Asp Asp Asp Gly
1 5 10

- (2) INFORMATION FOR SEQ ID NO:81:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:

Lys Phe Thr Ile Val Phe Gly Gly Gly Leu Phe Glu Ala Ile Ala Glu 1 5 10 15

Phe Ile Glu Gly Gly Trp Glu Gly Leu Ile Glu Gly 20 25

(2) INFORMATION FOR SEQ ID NO:82:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 27 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:

Gly Leu Phe Glu Ala Ile Ala Glu Phe Ile Glu Gly Gly Trp Glu Gly

5 10 15

Leu Ile Glu Gly Cys Lys Phe Thr Ile Val Phe 20 25

- (2) INFORMATION FOR SEQ ID NO:83:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 38 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:

Cys Gly Tyr Gly Gly Gly Gly Gly Pro Lys Lys Lys Arg Lys Val 1 5 10 15 Gly Gly Gly Leu Phe Glu Ala Ile Ala Glu Phe Ile Glu Gly Gly Trp 20 25 30

Glu Gly Leu Ile Glu Gly 35

- (2) INFORMATION FOR SEQ ID NO:84:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 38 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:

Gly Leu Phe Glu Ala Ile Ala Glu Phe Ile Glu Gly Gly Trp Glu Gly
1 5 10 15

Leu Ile Glu Gly Gly Gly Gly Gly Gly Gly Gly Gly Pro Lys Lys 20 25 30

Lys Arg Lys Val Gly Gly 35

- (2) INFORMATION FOR SEQ ID NO:85:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:

Lys Phe Thr Thr Ile Val Phe Cys Gly Tyr Gly Pro Lys Lys Arg
1 5 10 15

Lys Val Gly Gly 20

- (2) INFORMATION FOR SEQ ID NO:86:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:

Cys Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly Gly Lys Phe Thr 1 5 10 15

Ile Val Phe

- (2) INFORMATION FOR SEQ ID NO:87:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 30 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 30
- (D) OTHER INFORMATION: /product= "OTHER" /note= "G AT POSITION 30 CAN BE ABSENT"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:

Gly Lys Phe Thr Ile Val Phe Asp Asp Asp Asp Asp Gly 20 25 30

- (2) INFORMATION FOR SEQ ID NO:88:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 44 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:

Lys Phe Thr Ile Val Phe Gly Gly Gly Leu Phe Glu Ala Ile Ala Glu 20 25 30

Phe Ile Glu Gly Gly Trp Glu Gly Leu Ile Glu Gly 35 40

(2) INFORMATION FOR SEQ ID NO):89:	NO:	ID	SEO	INFORMATION FOR
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- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 43 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:

Gly Leu Phe Glu Ala Ile Ala Glu Phe Ile Glu Gly Gly Trp Glu Gly 20 25 30

Leu Ile Glu Gly Cys Lys Phe Thr Ile Val Phe 35 40

- (2) INFORMATION FOR SEQ ID NO:90:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 54 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:

Gly Leu Phe Glu Ala Ile Ala Glu Phe Ile Glu Gly Gly Trp Glu Gly 20 25 30

Leu Ile Glu Gly Gly Gly Gly Gly Gly Gly Gly Gly Pro Lys Lys 35 40 45

Lys Arg Lys Val Gly Gly 50

(2) INFORMATION FOR SEQ ID NO:91:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 36 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:

Lys Phe Thr Thr Ile Val Phe Cys Gly Tyr Gly Pro Lys Lys Lys Arg 20 25 30

Lys Val Gly Gly 35

(2) INFORMATION FOR SEQ ID NO:92:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 37 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:

Gly Gly Cys Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly Gly Lys 20 25 30

Phe Thr Ile Val Phe 35

(2) INFORMATION FOR SEQ ID NO:93:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 56 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:

Gly Gly Cys Gly Tyr Gly Gly Gly Gly Gly Gly Pro Lys Lys Arg $20 \qquad 25 \qquad 30$

Lys Val Gly Gly Gly Leu Phe Glu Ala Ile Ala Glu Phe Ile Glu Gly 35 40 45

Gly Trp Glu Gly Leu Ile Glu Gly 50 55

(2) INFORMATION FOR SEQ ID NO:94:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 24 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:

Ser Ser Asp Asp Glu Ala Thr Ala Asp Ser Gln His Ser Thr Pro Pro 1 5 10 15

Lys Lys Lys Arg Lys Val Gly Gly

- (2) INFORMATION FOR SEQ ID NO:95:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 40 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:

Ser Ser Asp Asp Glu Ala Thr Ala Asp Ser Gln His Ser Thr Pro Pro 20 25 30

Lys Lys Lys Arg Lys Val Gly Gly 40

- (2) INFORMATION FOR SEQ ID NO:96:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:

Met Ser Tyr Tyr His His His His His Asp Tyr Asp Ile Pro Thr 15

10

Thr Glu Asn Leu Tyr Phe Gln Gly Ser

- (2) INFORMATION FOR SEQ ID NO:97:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 37 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:

Met Ser Tyr Tyr His His His His His His Asp Tyr Asp Ile Pro Thr 15

5 10 Thr Glu Asn Leu Tyr Phe Gln Gly Ser Gly Tyr Gly Pro Lys Lys 20 25 30

Arg Lys Val Gly Gly 35

(2) INFORMATION FOR SEQ ID NO:98:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 30 amino acids

- (B) TYPE: amino acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:

Met Ser Tyr Tyr His His His His His Asp Tyr Asp Ile Pro Thr

1 5 10 15

Thr Glu Asn Leu Tyr Phe Gln Ser Lys Phe Thr Ile Val Phe 20 25 30

- (2) INFORMATION FOR SEQ ID NO:99:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 44 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:									
Met Ser Tyr Tyr His His His His His Asp Tyr Asp Ile Pro Thr 1 5 10 15									
Thr Glu Asn Leu Tyr Phe Gln Ser Gly Leu Phe Glu Ala Ile Ala Glu 20 25 30									
Phe Ile Glu Gly Gly Trp Glu Gly Leu Ile Glu Gly 35 40									
(2) INFORMATION FOR SEQ ID NO:100:									
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: not relevant (D) TOPOLOGY: linear 									
(ii) MOLECULE TYPE: peptide									
(iii) HYPOTHETICAL: NO									
(iv) ANTI-SENSE: NO									
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:100:									
Met Ser Tyr Tyr His His His His His Asp Tyr Asp Ile Pro Thr 1 5 10 15									
Thr Glu Asn Leu Tyr Phe Gln Ser Arg Gly Asp Ser Pro Cys 20 25 30									
(2) INFORMATION FOR SEQ ID NO:101:									
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: not relevant (D) TOPOLOGY: linear 									
(ii) MOLECULE TYPE: pentide									

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:101:

Met Ser Tyr Tyr His His His His His His 1 5 10

- (2) INFORMATION FOR SEQ ID NO:102:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 22 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:102:

Met Ser Tyr Tyr His His His His His Gly Tyr Gly Pro Lys Lys 1 5 10 15

Lys Arg Lys Val Gly Gly 20

- (2) INFORMATION FOR SEQ ID NO:103:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 16 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO

(xi`	SEC	DUENCE	DESCRIP	TION:	SEQ	ID	NO	:10)3	;
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Met Ser Tyr Tyr His His His His His Lys Phe Thr Ile Val Phe 1 5 10 15

(2) INFORMATION FOR SEQ ID NO:104:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 30 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:104:

Met Ser Tyr Tyr His His His His His Gly Leu Phe Glu Ala Ile 1 5 10 15

Ala Glu Phe Ile Glu Gly Gly Trp Glu Gly Leu Ile Glu Gly 20 25 30

(2) INFORMATION FOR SEQ ID NO:105:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 16 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:

Met Ser Tyr Tyr His His His His His Arg Gly Asp Ser Pro Cys 10 15

- (2) INFORMATION FOR SEQ ID NO:106:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:106:

His His His His His 5

- (2) INFORMATION FOR SEQ ID NO:107:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 16 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:

Gly Gly Gly Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly Gly 1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:108:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 12 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:108:

Gly Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly 1 5 10

- (2) INFORMATION FOR SEQ ID NO:109:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:

Gly Cys Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly Gly 1 5 10

- (2) INFORMATION FOR SEQ ID NO:110:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:110:

Gly Gly Arg Gly Asp Met Phe Gly Gly 1 5

- (2) INFORMATION FOR SEQ ID NO:111:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 22 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:111:

Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly Gly Gly Gly Arg
1 5 10 15

Gly Asp Met Phe Gly Gly 20

(2) INFORMATION FOR SEQ ID NO:112:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:112:

Gly Leu Phe Gly Ala Ile Ala Gly Phe Ile Glu Asn Gly Trp Glu Gly 15

Met Ile Asp Gly 20

- (2) INFORMATION FOR SEQ ID NO:113:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:113:

Gly Leu Phe Gly Ala Ile Ala Gly Phe Ile Glu Asn Gly Trp Glu Gly 10

5

15

Leu Ile Glu Gly 20

- (2) INFORMATION FOR SEQ ID NO:114:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:114:

Gly Leu Phe Lys Ala Ile Ala Lys Phe Ile Lys Gly Gly Trp Lys Gly

1 5 10 15

Leu Ile Lys Gly 20

- (2) INFORMATION FOR SEQ ID NO:115:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 12 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: not relevant
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:115:

Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly Gly 1 5 10

(2) INFORMATION FOR SEQ ID NO:116:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 31 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:116:

Gly Gly Cys Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly Gly 20 25 30

- (2) INFORMATION FOR SEQ ID NO:117:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 36 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:117:

Cys Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly Gly Gly Gly Arg 20 25 30

Gly Asp Ser Pro 35

(2) INFORMATION FOR SEQ ID NO:118:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:118:

Gly Gly Arg Gly Asp Ser Pro Cys Gly
20
25

- (2) INFORMATION FOR SEQ ID NO:119:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:119:

Gly Arg Gly Asp Ser Pro Cys Gly Gly Lys Lys Lys Lys Lys Lys Lys Lys 1 5 10 15

Lys Lys Lys Lys Lys Lys Lys Lys Lys 20 25

- (2) INFORMATION FOR SEQ ID NO:120:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 22 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:120:

Cys Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly Gly Gly Arg
1 5 10 15

Gly Asp Ser Pro Cys Gly 20